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E.O. 12958: N/A

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SUBJECT: EXTRANCHECK: POST-SHIPMENT VERIFICATION: CENTER FOR
INDUSTRIAL CONSULTANCY AND SPONSORED RESEARCH, INDIAN INSTITUTE OF
TECHNOLOGY, CHENNAI, INDIA.

REF: USDOC 01466

11. Unauthorized disclosure of the information provided below is prohibited by Section 12(c) of the Export Administration Act.

12. On April 9, 2008, Export Control Officer (ECO) Paul Cushman and BIS FSN Shailendra Srivastava conducted a Post-Shipment Verification (PSV) at Center for Industrial Consultancy and Sponsored Research (CICSR), Indian Institute of Technology (IIT), Chennai.

13. BIS requested a PSV at CICSR located at the Indian Institute of Technology, Chennai 600036. CICSR was listed as the ultimate consignee for one split-top tube furnace manufactured by Thermo Electron, 275 Aiken Road, Asheville, North Carolina. Export License: No License Required. ECCN: None.

13. ECO and FSN Srivastava met with Mr. R. Sundaram, Senior Techno Economic Officer, Dr. Balaji Srinivasan, Assistant Professor, Dr. Anil Prabhakar, Assistant Professor and Mr. V. Umapathy, Special Officer (Project Purchaser), CICSR.

14. CICSR representatives were aware of some BIS regulations. However, this was the first visit by BIS officials to their facility. Mr. Sundaram provided copies of documents pertaining to this transaction including the Thermo Electron Commercial Invoice, CICSR Purchase Order, Air Waybill, a receipt for import duties paid to the Indian Customs Authority and Delivery Challan confirming receipt of the furnace.

15. Mr. Srinivasan confirmed the stated end-use. He explained that the split-top tube furnace is being used to carry out annealing experiments on Fiber Bragg Gratings (FBG) within optical fibers which are generally used in the telecommunication industry. FBGs act as an inline optical filter blocking certain wavelengths of light while transmitting all others. Over time at normal temperatures, the FBG's efficiency degrades. The scientists at CICSR use the furnace to simulate a 10-20 year aging process in a matter of hours and map the associated decay of the refractive index within the fiber core.

16. After the meeting, the BIS team was given a tour of the CICSR facility where the ECO verified the split-top tube furnace's serial number as R06R-507109-RR, model number TF55035COMC-1, 3.4 amps, 208/230 volts, 0.8 watts and term range 1100 Celsius.

17. CICSR falls under the Indian Institute of Technology within the Ministry of Human Resources and Development. The center was established to promote the exchange of knowledge and experience between industry and the Institute. It fosters and administers

collaboration with various industries for research, transfer of technology, human resource development, international partnership, facilitation of access to research, expertise and technology, database construction, and dissemination of information.

¶9. Recommendation: At the time of this visit, the Center for Industrial Consultancy and Sponsored Research appeared to be a suitable recipient of the controlled technology. The item on check was physically verified and was being used in a manner consistent with the Export Administration Regulations.

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